47. (new) The method of claim 26, wherein the light source is a quartz halogen 150 watt light source.

48. (new) The method of claim 26, wherein the NIR wavelength interval is about 700-1050 nm.

49. (new) The method of claim 26, wherein oxygen in cerebral tissue is monitored by monitoring cytochrome oxidase in the cerebral tissue.

50. (new) The method of claim 26, wherein oxygen in cerebral tissue is monitored by monitoring the redox ration of cytochrome oxidase in the cerebral tissue.

REMARKS

Claims have been amended and cancelled to reduce the number of claims, eliminate multiple dependencies, and cancel claims which issued in U.S. Patent No. 6,283,123. For convenience in prosecution, all claims are repeated herein, even those which are not amended herein.

Applicants respectfully submit that the application is in condition for allowance. A Notice of Allowance is hereby respectfully requested.

Should the Examiner feel that a telephone conference would advance the prosecution of this application, he is encouraged to contact the undersigned at the telephone number listed below.

Applicants respectfully petition the Commissioner for any extension of time necessary to render this paper timely.

Please charge any fees due or credit any overpayment to Deposit Account No. 50-0694.

Respectfully submitted,

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Signature of Person Mailing Application

Norma Brown
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Keith W. Van Meter and Frederick A. KriedtDATE: December 20, 2001

SERIAL NO.: 09/_____ FILED:

INTERNATIONAL APPLICATION NO. PCT/US00/10968 GROUP ART UNIT: 3763

INTERNATIONAL APPLICATION FILED: April 20, 2000 EXAMINER:

FOR: "HYPERBARIC RESUSCITATION SYSTEM AND METHOD"

ATTORNEY DOCKET NO.: Attorney Docket No. P99210USWO (04215.1P3.USPCT)

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COPY OF AMENDMENT SHOWING CHANGES

Please amend the application as follows:

IN THE CLAIMS:

Please amend the claims as follows (deleted text is bracketed and new text is underlined):

Please cancel claims 1-23 without prejudice.

-- 24. A system comprising:

(a) a light source and connecting fiber optics;

(b) a near infrared band pass filter;

(c) a pickup optode unit;

(d) a dual wave interval spectrophotometer for sensing and recording a NIR wavelength interval;

(e) a personal computer with software algorithm to separate the cytochrome oxidase, water and hemoglobin absorbance curves for evaluation and display.

25. The system of claim 24, wherein the light source is a stabilized pulsed light.

26. A method of using the system of claim 24 to monitor the change of any natural or manmade chromophore existing in the brain to assist in the diagnosis or treatment of a neurological or psychotic disorder.--

Please cancel claim 27 without prejudice.

-- 28. (amended) The invention of [any one of claims 1-27] claim 24, wherein the [non-invasive monitoring means or] spectrophotometer monitors relative changes in redox levels in real-time.

29. (amended) The invention of [any one of claims 1-27] claim 24, wherein Fourier transforms are used in analyses of near infrared data obtained from the [non-invasive monitoring means or] spectrophotometer.

30. (amended) The invention of [any one of claims 1-27] claim 24, wherein the [non-invasive monitoring means or] spectrophotometer includes:

a background pickup device which receives photons that have traversed the scalp and skull but not deep enough to reach the cerebral cortex,

a sample pickup device that is positioned to receive photons that have traversed the scalp, skull dura matter, and pia, and

the background signal is subtracted from the sample signal to result in a signal representing the cerebral cortex.

31. The system of claim 24, wherein the light source is a quartz halogen 150 watt light source.

32. The system of claim 24, wherein the NIR wavelength interval is about 700-1050 nm.--

Please cancel claims 33-39 without prejudice.

-- 40. (amended) The invention of [any prior] claim 24, wherein oxygen in cerebral tissue is monitored by monitoring cytochrome oxidase in the cerebral tissue.

41. (amended) The invention of [any prior] claim 24, wherein oxygen in cerebral tissue is monitored by monitoring the redox ration of cytochrome oxidase in the cerebral tissue.--

Please cancel claim 42 without prejudice.

Please add the following claims:

-- 43. (new) The method of claim 26, wherein the light source is a stabilized pulsed light.

44. (new) The method of claim 26, wherein the spectrophotometer monitors relative changes in redox levels in real-time.

45. (new) The method of claim 264, wherein Fourier transforms are used in analyses of near infrared data obtained from the spectrophotometer.

46. (new) The method of claim 26, wherein the spectrophotometer includes:

a background pickup device which receives photons that have traversed the scalp and skull but not deep enough to reach the cerebral cortex,

a sample pickup device that is positioned to receive photons that have traversed the scalp, skull dura matter, and pia, and

the background signal is subtracted from the sample signal to result in a signal representing the cerebral cortex.

47. (new) The method of claim 26, wherein the light source is a quartz halogen 150 watt light source.

48. (new) The method of claim 26, wherein the NIR wavelength interval is about 700-1050 nm.

49. (new) The method of claim 26, wherein oxygen in cerebral tissue is monitored by monitoring cytochrome oxidase in the cerebral tissue.

50. (new) The method of claim 26, wherein oxygen in cerebral tissue is monitored by monitoring the redox ration of cytochrome oxidase in the cerebral tissue.--